

# NYCOA Polyamide 571 HS

Polyamide 6

Nycoa (Nylon Corporation of America)

Message:

NYCOA 571 HS is a medium viscosity Nylon 6 resin developed specifically for Rotational Molding.  
NYCOA 571 HS possesses an excellent combination of impact strength and rigidity, as well as excellent thermal properties and chemical resistance.

General Information			
Additive	Impact modifier		
Features	Impact modification		
	Rigidity, high		
	Impact resistance, high		
	Good chemical resistance		
	Medium viscosity		
Forms	Particle		
Processing Method	rotomolding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (235°C/1.0 kg)	2.6	g/10 min	ASTM D1238
Water Absorption (24 hr)	1.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength <sup>1</sup>	66.2	MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	150	%	ASTM D638
Flexural Modulus <sup>3</sup>	2070	MPa	ASTM D790
Flexural Strength <sup>4</sup>	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (6.35 mm)	170	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	220	°C	DSC
Additional Information			
The value listed as Melting Point DSC, was tested in accordance with ASTM D789.Relative Viscosity, NYCOA method: 3.0 to 3.4 SAVWater Extracable, NYCOA method: 1.5%Melt Mass- Flow Rate (MFR), ASTM D1238, 235°C/1 kg: 2.4 to 2.8 g/10min			
NOTE			
1.	50 mm/min		
2.	50 mm/min		
3.	50 mm/min		
4.	50 mm/min		

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